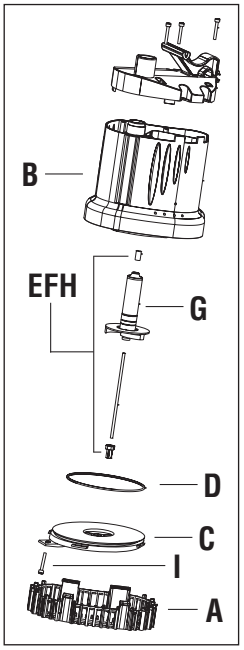
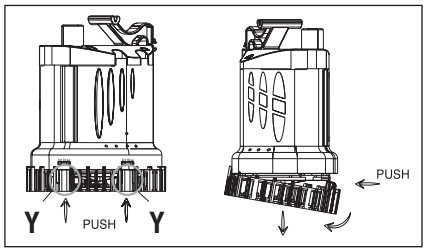
Dirty Water Pump Series
INSTRUCTIONS

Safety Standards

- **WARNING** – To reduce the risk of electric shock, use only on portable self-contained fountains no larger than 5 feet in any dimension.
- **WARNING** – To reduce risk of electric shock, connect only to a properly grounded, grounding type receptacle.
- **CAUTION** – This pump has been designed for use with water only.
- **WARNING** – Risk of electric shock – this pump has not been investigated for use in swimming pool or marine areas.
- **WARNING** – To reduce the risk of electric shock, install only on a circuit protected by a ground-fault circuit Interrupter (GFCI).
- Acceptable for indoor and outdoor use.
- Submersible Pump.
- Make sure the power cable is fully intact before connecting the pump to main power supply.
- Never replace or repair the power cable. Replace entire pump if damaged.
- **WARNING** – Make sure the pump is disconnected before performing any maintenance. If plug or main electrical socket is wet, disconnect the master switch before removing power cable.
- Ideally, extension cords should not be used. If necessary, make sure connection is completely sealed and that cable is suitable for external use and identical to that of the pump cable (in terms of insulation and section).
- Avoid lifting the pump by means of the power cable during installation and maintenance operations.
- The pump can be used in liquids with temperatures no greater than 95 degrees F.
- Keep these instructions in a safeplace for future reference.
- Keep out of reach of children.





Cleaning

- Easy simple cleaning is required for the pump to operate correctly.
- Disconnect the power cord form electrical supply before performing any maintenance.
- Remove the bottom grill **(A)** by pushing release tabs **(Y)**.
- Rinse all parts in running water using a small brush to remove any debris.
- Make sure pre-chamber **(C)** is clean of any debris.

Maintenance

- Remove the bottom grill **(A)** by pushing the release tabs **(Y)**.
- Loosen screw **(I)** and gently remove the pre-chamber **(C)** and rotor assembly composed of the shaft **(EFH)** and the rotor **(G)**. Remove the rotor **(G)** being careful not to lose the rear rubber cap **(H)**. Rinse all parts in running water using a small brush to remove any scale.
- Clean the o-ring **(D)** fitted on the pre-chamber **(C)** and make sure it is clean and in good condition. Replace if it is damaged.
- Reassemble the pump.

Use

- This pump is designed for dirty water applications and for continuous use.
- The pump can be operated in either a vertical or horizontal position.
- The pump can only be operated with water inside and should never be run dry.
- **Model 2780** features ***water detection technology***. After 15 seconds, Model 2780 will attempt to turn itself on automatically (if water is present) and will try again every 10 minutes. This will occur a total of 5 times. It will then try to start once every 24 hours for 30 days. After this it will stop and you will need to disconnect and plug the pump back into an electrical power source to reset itself.

Attention

- Make sure the outlet (discharge) pipe is empty of water when starting the pump. Air pockets inside the outlet line can have a negative effect on the pump performance. If air pockets exist, turn the pump off and wait a few seconds before turning back on. This should correct the problem.
- Noise generated in **Models 1430 and 2100** for short periods (usually at start up) is caused by the pumps ability to clean itself by turning repeatedly back and forth (clockwise and counter clockwise), removing any debris that can block the pre-chamber. This self-clean ing function reduces the time necessary for maintenance.

Warranty

Lifegard Aquatics warrants to the original purchaser, this product to be free from defects in material or workmanship for a period of one year from the date of purchase, provided it is operated in accordance with factory instructions and operated within the environment and limitations for which it is designed. Lifegard will not be liable for any labor cost of removing or replacing component parts. This shall be the responsibility of the original purchaser as will be shipping charges to and from the Lifegard facility. Damage incurred by improper repackaging or in shipping is not covered by this warranty. Lifegard will only be responsible for repair or replacement of any of its products or parts that are found to be defective and will not bear cost of any incidental or consequential damages arising out of the occurrence of such defect. This warranty gives you specific legal rights that vary from state to state.

Replacement Parts

R440475	**Shaft Assembly-includes bushings** (978)
R440476	**Impeller** (978)
R440477	**"O" Ring** (978)
R440478	**Grid** (978)
R440479	**Shaft Assembly-includes bushings** (1430, 2100)
R440481	**"O" Ring** (1430, 2100, 2780)
R440482	**Grid** (1430, 2100, 2780)
R440483	**Impeller** (1430)
R440484	**Impeller** (2100)
R440486	**Shaft Assembly-includes bushings** (2780)
R440487	**Impeller** (2780)

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